# Top-10 Vulnerabilities in Substrate-based Blockchains Using Rust

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[Polkadot forum post

](https://forum.polkadot.network/t/common-vulnerabilities-in-substrate-polkadot-development/3938)headlined «Common Vulnerabilities in Substrate/Polkadot Development», written in September 2023 by Vincent Di Giambattista, chief information security officer for Parity Technologies.

Substrate is a powerful and flexible framework for building blockchains, that utilizes Rust.

It is the chosen framework for several prominent and large-scale protocols, including[Manta Network](#), [Centrifuge](#), [Band Protocol](#), and [Aleph Zero](#). These diverse applications demonstrate Substrate's adaptability and strength in powering a wide range of blockchain solutions.

Nonetheless, while Rust has many built-in exploit mitigations, it is not hacker-proof. Understanding its vulnerabilities and acting on them will be a game changer.

Let's explore the Top 10 Vulnerabilities in Substrate-based blockchains.

We will:

- guide you through these vulnerabilities

- explain why they're risky

- showcase the impact they might have

- show you how to mitigate them